

## CLAIMS:

1. An electroacoustic transducer (1)  
with a transducer axis (2) and  
comprising a membrane (8), which membrane (8) is arranged parallel to the  
transducer axis (2) so as to be oscillatory, and  
5 comprising a magnet system (14), which magnet system (14) is equipped with  
two magnet-system components (16, 18), which magnet-system components (16, 18) bound  
an air gap (20), and  
comprising a moving coil (29), which moving coil (29) is, in part, arranged in  
the air gap (20) and is connected to the membrane (8), and  
10 comprising a circuit module (23), which circuit module (23) is equipped with a  
circuit frame (30) and at least one circuit component (31) of a transducer circuit, mounted on  
the circuit frame (30),  
wherein the magnet system (14) is arranged in an annular shape and encloses  
an inner space (22), which inner space (22) is accessible from outside the magnet system (14)  
15 during production of the transducer (1) and before the circuit module (23) is mounted, and  
wherein the at least one circuit component (31) is arranged on a first carrier  
surface (32) of the circuit frame (30) which first carrier surface (32) faces the membrane (8),  
and in the inner space (22) of the magnet system (14).
- 20 2. An electroacoustic transducer (1) as claimed in claim 1, wherein just one  
single circuit component (31) is provided, which is formed by an integrated circuit (31)  
connected to circuit frame (30), which integrated circuit (31) forms the transducer circuit.
3. An electroacoustic transducer (1) as claimed in claim 2, wherein the integrated  
25 circuit (31) is embedded in a plastic jacket (33) and wherein two connection contacts (34) are  
provided on the plastic jacket (33), each of which connection contacts (34) is connected to a  
moving-coil contact (25).

4. An electroacoustic transducer (1) as claimed in claim 1, wherein four connecting contacts (36), each having the shape of an annular sector, are provided on a second carrier surface (35) of the circuit frame (30) which second carrier surface (35) faces away from the membrane (8).

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5. An electroacoustic transducer (1) as claimed in claim 5, wherein the circuit module (23) is of a design that can be removed without separate tools.

6. An electroacoustic transducer (1) as claimed in claim 1, wherein the transducer (1) has a pot-shaped housing (3) wherein, in the direction of the transducer axis, its height has a value between 2.0 mm and 5.0 mm and its diameter perpendicular to the direction of the transducer axis has a value between 6.0 mm and 20.0 mm.

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